

334.

<sup>in flower</sup>  
30<sup>th</sup> March 1847. Santa Fe. A shrub (the highest from 10 to 15 feet) very common all around Santa Fe, lower regions of the mountains, but more abundantly on the dry grassy hills south west of Santa Fe, and on the plains adjoining them. They are found also on the summits of high mountains but far less - & not strong. The branches of this plant are much quicker than those of the next following number.

1

<sup>in flower</sup>  
30<sup>th</sup> April 1847. Santa Fe, mountain valleys, in the neighbourhood of creeks. A shrub commonly of 1<sup>1</sup>/<sub>2</sub> to 15 feet high; some of its lowermost branches (near the ground) often 2 feet in diameter. A tree like shrub of this kind I saw near the creek, whose main trunk measured 8 feet in circumference; the branches lower most branches very much spreading and growing to a height of about 25 feet.

1

6<sup>th</sup> June 1847. in flower. Santa Fe Creek valley in shady places at a great distance from the creek. - bushy shrubs from 1 to 2<sup>1</sup>/<sub>2</sub> feet high, branches very tough.

### Naiadaceae.

1

21<sup>st</sup> June 1847. Vicinity of Santa Fe, at the margin of ponds, submerged, leaves floating on the surface.

### Arisiacaceae.

*Alisma Plantago*. fruct. minute  
*fol. cordata* = *A. paniculatum*?  
17<sup>th</sup> August 1846. About 25 miles East of Council Grove, marshy ground, Creek bed.

*Sagittaria variabilis* mihi  
= *S. sagittifolia americanus*  
21<sup>st</sup> - 23<sup>rd</sup> June 1847. Santa Fe,  
shallow ponds.  
11<sup>th</sup> July, in fruit.

### Sagitt.

29<sup>th</sup> September 1847. Shallow pond-like collections of water in the prairies 40 miles West of the head of Arkansas River.

### Loranthaceae.

14<sup>th</sup> August 1847. Up timber 1846. Two prairies 9 miles South of Fort Leavenworth; also about 100° West longitude, not far from the bed of the Arkansas. Flowers white.

### Loranthaceae.

22<sup>nd</sup> June 1847. Santa Fe, in grassy places near the falling ditch.

### Soniaceae.

*Populus tremuloides*  
18<sup>th</sup> June 1847. In willows  
cultivated.

11<sup>th</sup> June 1847. Santa Fe, creek valley; over a dried bank of the creek.

3<sup>rd</sup> - 10<sup>th</sup> June 1847. Santa Fe, shady bank of the creek, fertile soil.

32<sup>nd</sup> - 4<sup>th</sup> June 1847. Santa Fe, foot of mountains, shady places, northern deciduous.

### Siliaceae.

8<sup>th</sup> July 1847. Santa Fe, foot of mountains, creek-valley.

8<sup>th</sup> June - 1<sup>st</sup> October 1846 - 1. Santa Fe to Rock Creek; also between Raton and Bearcreek (between Bent's Fort and Santa Fe), near creeks, and on level prairies, also foot of mountains.

3<sup>rd</sup> June 1847. in flower.

Santa Fe, sunny steep declivities of mountains, between rocks; overgrown. The rhizomes of this plant which sometimes are to be found of 3 inches diameter, are used by the Mexicans as a substitute for soap. For this purpose they are washed into pieces with a stone, hot water poured on to them, and the clothes rubbed with them. In drying the leaves I found that from their base where they had been cut, some drops of a clear transparent juice, which was sticky & like glue, but had no smell, was exuding. Some of the leaves over 3 feet long.

24<sup>th</sup> May - 21<sup>st</sup> August in flower. Santa Fe to Rock Creek, at the foot of mountains, on shady declivities, around shrubs. Also on dry scrub hills about Santa Fe Bent's Fort, but more abundantly in the valleys between these hills. The rhizomes of this plant are likewise used as a substitute for soap. This plant does not seem to flower every year.

17<sup>th</sup> August 1847. 2 miles East of Mero River. Elevated rocky region.

#### Pontederiaceae.

2<sup>nd</sup> September 1847. Bulbils collection of water in the prairies

40 miles South West of the Ford of Arkansas River.  
Flowers of a fine blue colour.

#### Melanthiaceae.

*Melanthia virginicum*

11<sup>th</sup> August 1846. 8 miles South of Fort Leavenworth. High prairie.

28<sup>th</sup> July 1847. Santa Fe (bank) up the above Santa Fe, foot of mountains.

#### Succulaceae, Cyperaceae

#### & Gramineae.

6<sup>th</sup> June - 26<sup>th</sup> July 1847. Santa Fe, wet grassy places of the creek-bottom.

20<sup>th</sup> May - 17<sup>th</sup> August 1847. Santa Fe and Rio Mero, elevated rocky regions not far from the water.

9<sup>th</sup> June - 12<sup>th</sup> July 1847. Santa Fe Creek, margin of the water.

16<sup>th</sup> June - 28<sup>th</sup> July 1847. Santa Fe Creek, margin of the water.

3<sup>rd</sup> September 1847. Ford of the Arkansas River, wet bottom-land.

15<sup>th</sup> May - 7<sup>th</sup> July 1847. Santa Fe Creek, near the water.

3<sup>rd</sup> June 1847. Santa Fe Creek, bottom land exposed to inundations.

14<sup>th</sup> August 1847. 12 miles West of Vegas, elevated rocky region.

*Commelinaceae agraria* Kunth  
(Scirpus, mimosi, Arkansas Texas)

22<sup>nd</sup> August 1846. Council-Grove, shady place underneath projecting ledges of rocks, fertile loose soil.

Canna by me said to be sp.

28<sup>th</sup> July 1847. Santa Fe, Creek valley in the mountains.

4<sup>th</sup> August 1847. Between San Miguel and Vegas, open woodland. Flower white.

25<sup>th</sup> June - 28<sup>th</sup> July 1847. Santa Fe, foot of mountains near irrigating ditches.

14<sup>th</sup> - 25<sup>th</sup> August 1846. 30 miles West of Council Grove, low place.

14<sup>th</sup> - 25<sup>th</sup> August 1847. San Miguel - Mc Nees Creek, sandy hill side.

*Cyperus strigosus* L. Torrey

27<sup>th</sup> August 1846. 30 miles West of Council Grove, low place

25<sup>th</sup> July - 14<sup>th</sup> August 1847. Santa Fe to Vegas, woodland.

13<sup>th</sup> August 1846 & 3<sup>rd</sup> September 1847. Ford of the Arkansas Riv., wet bottomland, and 30 miles West of Independence.

18<sup>th</sup> - 26<sup>th</sup> September 1847. Bluff-Creek-bottom.

23<sup>rd</sup> August 1846. Council Grove, dry parts of the gravelly creekbed.

1<sup>st</sup> - 27<sup>th</sup> May - 12<sup>th</sup> July 1847. Santa Fe margin of the Creek.

26<sup>th</sup> April 1847. Santa Fe Creek, low grassy bank.

27<sup>th</sup> May - 18<sup>th</sup> July 1847. Santa Fe, margin of a pond, wet soil.

21<sup>st</sup> May - 7<sup>th</sup> June 1847. Santa Fe immersed in a pond.

3<sup>rd</sup> September 1847. Ford of the Arkansas River, wet bottom land.

3<sup>rd</sup> September 1847. Ford of the Arkansas River, low set places near the river.

26<sup>th</sup> April - 24<sup>th</sup> June 1847. Santa Fe, margin of the Creek and of irrigating ditches.

15<sup>th</sup> May 1847. Santa Fe Cut-valley, moist places.

16<sup>th</sup> June 1847. Santa Fe, margin of the Creek in the mountains.

21<sup>st</sup> May - 19<sup>th</sup> July 1847. Santa Fe, margin of the Creek.

31<sup>st</sup> May - 16<sup>th</sup> June 1847. Santa Fe, Creek bank.

16<sup>th</sup> June - 7<sup>th</sup> July 1847. Santa Fe, margin of irrigating ditches.

15<sup>th</sup> May - 24<sup>th</sup> June 1847. Santa Fe, Creek bank, near the water.

3<sup>rd</sup> June 1847 Santa Fe, shady bank of the Creek, close to the water.

23<sup>rd</sup> August 1847. 1 miles East of Rock Creek.

21<sup>st</sup> May - 7<sup>th</sup> June 1847 Santa Fe, wet meadow near a pond.

3<sup>rd</sup> June 1847 Santa Fe, Creek valley, not far from the Creek.

20<sup>th</sup> May - 6<sup>th</sup> June 1847 Santa Fe, margin of irrigating ditches.

17<sup>th</sup> April 1847 Santa Fe Creek, moist places near the Creek.

26<sup>th</sup> April 1847 Santa Fe, foot of mountains, not far from irrigating ditches.

24<sup>th</sup> - 27<sup>th</sup> April 1847 Santa Fe, wet meadow near a pond.

24<sup>th</sup> May 1847 Rio del Norte, margin of the water on somewhat elevated banks, between rocks.

10<sup>th</sup> May - 2<sup>nd</sup> August 1847 Santa Fe, dry loose and level ground, also sandy soil and gently sloping ledges.

27<sup>th</sup> August 1847 Upper Spring (Cimarron Riv.), bank of the river.

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19<sup>th</sup> July - 16<sup>th</sup> August 1847 Santa Fe - Moro Riv., rocky bluffs.

27<sup>th</sup> August 1847. Upper Spring (Cimarron Riv.), margin of the water.

27<sup>th</sup> August 1847. Upper Spring (Cimarron Riv.), margin of the water.

19<sup>th</sup> June - 10<sup>th</sup> August 1847 Santa Fe, elevated place of the Creek bottom; also near the irrigating ditches of fields.  
*Lysimachia Dactyloctenoides*

19<sup>th</sup> August 1847. Council Gro., bottom land.

3<sup>rd</sup> 19<sup>th</sup> July 1847 Santa Fe, margin of irrigating ditches at the foot of mountains.

22<sup>nd</sup> June - 8<sup>th</sup> August 1847 Santa Fe, Creek-bottom.

20<sup>th</sup> May - 18<sup>th</sup> July 1847 Santa Fe, dry valleys at the foot of hills loose soil.

31<sup>st</sup> July 1847 Santa Fe, Creek-valley.

15<sup>th</sup> July 1847 Santa Fe, Creek-valley, foot of hills.

19<sup>th</sup> - 31<sup>st</sup> July 1847 Santa Fe, Creek-bottom.

*Elymus canadensis*  
21<sup>st</sup> September, 1847. Bottom land of Kansas River.

8<sup>th</sup> 15<sup>th</sup> July 1847 Santa Fe, Creek valley near irrigating ditches.

8<sup>th</sup> June - 15<sup>th</sup> July 1847 Santa Fe, Creek valley at the foot of hills, not far from the Creek bank.

22<sup>nd</sup> June - 26<sup>th</sup> July 1847 Santa Fe, Creek-valley, foot of hills.

16<sup>th</sup> June - 12<sup>th</sup> July 1847 Santa Fe.

17<sup>th</sup> August 1847 no Creek, slopes of the Creek bank.

21<sup>st</sup> May 1847 Santa Fe, in a wet meadow.

25<sup>th</sup> August 1847 Mr. Rice's Creek, sandy hillside.

15<sup>th</sup> August - 18<sup>th</sup> September 1847 100 miles West of Independence to Bluff-Creek, fertile bottom land.

12<sup>th</sup> August 1847 Near San Miguel, open woodland.

7<sup>th</sup> July - 16<sup>th</sup> August 1847 Santa Fe - Moro River, foot of rocky hills.

28<sup>th</sup> July 1847 Santa Fe, Creek-valley.

10<sup>th</sup> - 31<sup>st</sup> July 1847 Santa Fe, foot of hills at the margin of fields.

24<sup>th</sup> May - 16<sup>th</sup> June 1847 Rio del Norte, - Santa Fe, side of hills.

22<sup>nd</sup> June - 7<sup>th</sup> July 1847 Santa Fe, Creek-valley, shady bank of the Creek.

24<sup>th</sup> June - 28<sup>th</sup> July 1847 Santa Fe, foot of mountains.

7<sup>th</sup> - 12<sup>th</sup> July 1847 Santa Fe, side of mountains.

12<sup>th</sup> - 26<sup>th</sup> July 1847 Rte

16<sup>th</sup> June - 26<sup>th</sup> July 1847 Santa Fe, protected by shrubs, at the foot of hills near fields.

28<sup>th</sup> August 1847 Between the Ford of Cimarron Riv. and Willow Bar, deep sandy somewhat moist soil.

28<sup>th</sup> August 1847 A few miles West of the ford of Cimarron Riv., high sandy prairie.

6<sup>th</sup> June - 31<sup>st</sup> July 1847 Santa Fe, Creek-valley, foot of mountains.

16<sup>th</sup> - 22<sup>nd</sup> June 1847 Santa Fe, Creek-valley.

3<sup>rd</sup> - 16<sup>th</sup> June 1847 Santa Fe, margin of the Creek in the mountains.

3<sup>rd</sup> June - 15<sup>th</sup> July 1847 Santa Fe, etc. etc.

27<sup>th</sup> May - 12<sup>th</sup> July 1847. Santa Fe, wet meadow.

27<sup>th</sup> May - 15<sup>th</sup> July 1847. Santa Fe, low wet meadow.

22<sup>nd</sup> April - 16<sup>th</sup> June 1847. Santa Fe Creek valley, side of mountains between rocks also foot of mountains and steep rocky banks.

7<sup>th</sup> June 1847. Santa Fe, margin of the creek.

18<sup>th</sup> September 1847. Bluff Creek-bottom.

17<sup>th</sup> - 20<sup>th</sup> August 1847. Ocate Creek to Mora River, elevated rocky places.

#### Coa reptans

23<sup>rd</sup> August - 26<sup>th</sup> September 1847. Council Grove, gravelly part of the Creek-bed; also Missouri

10<sup>th</sup> - 13<sup>th</sup> August 1847. A few miles East of Santa Fe to neighbourhood of Ojo de Bernal; woodland.

25<sup>th</sup> May - 26<sup>th</sup> July 1847. Rio del Norte, steep bank between rocks, also Santa Fe, waste garden land.

7<sup>th</sup> June - 25<sup>th</sup> July 1847. Santa Fe, along the mud walls of fields.

31<sup>st</sup> May - 7<sup>th</sup> June 1847. Sarita Fe Creek, grassy somewhat elevated parts of its bottom in land.

26<sup>th</sup> July - 23<sup>rd</sup> August 1847. Santa Fe, Rock-Creek, dry prairie.

16<sup>th</sup> June - 1<sup>st</sup> July 1847. Santa Fe Creek, foot of hills.

15<sup>th</sup> May 1847. Santa Fe Creek.

30<sup>th</sup> April - 24<sup>th</sup> June 1847. Sunny bank of Santa Fe Creek.

9<sup>th</sup> June - 29<sup>th</sup> July 1847. Santa Fe Creek valley, wet soil near a spring.

1<sup>st</sup> June - 28<sup>th</sup> August 1847. Rio del Norte, low sandy bank; Santa Fe, flat sandy places in the ford of Cimarron River; also between Bent's Fort & Santa Fe

17<sup>th</sup> May - 19<sup>th</sup> July 1847. Dry sandy plains between Santa Fe and the Rio del Norte; also Santa Fe, foot of hills near fields.

3<sup>rd</sup> - 31<sup>st</sup> July 1847. Santa Fe Creek valley, foot of hills near fields.

13<sup>th</sup> - 23<sup>rd</sup> August 1847. Ojo de Bernal, Mora Riv. and Rock Creek.

3<sup>rd</sup> August - 1<sup>st</sup> Septbr. 1847. Santa Fe to Little Arkansas River, from which region East it is only found occasional small isolated patches along the road as far as Council Grove.

13<sup>th</sup> August 1847. Near Ojo de Bernal.

27<sup>th</sup> June - 27<sup>th</sup> August 1847. Santa Fe, Mora Riv. to Council Grove.

14<sup>th</sup> August 1847. A few miles West of Hickory point, low wet bottom.

18<sup>th</sup> September 1847. Bluff Creek bottom.

24<sup>th</sup> September 1847. 8 miles South of Fort Leavenworth, along the roadside.

24<sup>th</sup> May - 28<sup>th</sup> August 1847. Rio del Norte, slopes of somewhat elevated banks, also a few miles West of the ford of Cimarron River, prairie.

28<sup>th</sup> August 1847. A few miles West of the Ford of Cimarron River, low prairies.

6<sup>th</sup> July 1847. Santa Fe Creek valley up in the mountains.

3<sup>rd</sup> July 1847. Santa Fe Creek valley not far from the town.

3<sup>rd</sup> June - 19<sup>th</sup> October 1846 347. Santa Fe Creek valley, gently sloping declivities, rather dry soil.

6<sup>th</sup> June - 13<sup>th</sup> July 1847. Santa Fe, margin of the Creek.

9<sup>th</sup> June - 10<sup>th</sup> August 1847. Santa Fe, foot of dry hills, somewhat sandy soil.

8<sup>th</sup> September 1847. Pawnee Fork Creek bottom, shady places.

26<sup>th</sup> - 28<sup>th</sup> July 1847. Santa Fe, Creek valley near fields.

7<sup>th</sup> July 1847. Santa Fe, margin of the creek.

24<sup>th</sup> September 1847. Near Fort Leavenworth.

3<sup>rd</sup> October 1846. Bottom-prairie and banks of Poni Creek, fertile soil.

16<sup>th</sup> August 1847. Mora River, hillside between rocks.

22<sup>nd</sup> September 1847. 6 miles N.E. of the Upper-ferry of Kansas River.

13<sup>th</sup> - August to 1<sup>st</sup> October 1846. 41. Ojo de Bernal & Rock Creek elevated prairie, in spots where the soil is loose and fertile, also between Bermijo and Colonia do Rio, in similar localities.

1<sup>st</sup> June - 1<sup>st</sup> October 1846 41. Santa Fe - Vegas, and Colorado River; prairie valleys, good soil.

24<sup>th</sup> June - 15<sup>th</sup> July 1847. Santa Fe, Creek valley near an irrigating ditch.

15<sup>th</sup> July 1847. Santa Fe, not far from the creek, at the foot of mountains.

22<sup>d</sup> June - 28<sup>th</sup> July 1847. Santa Fe, margin of the creek.

30<sup>th</sup> May - 6<sup>th</sup> August 1847. Santa Fe, dry hill-sides, gravelly soil.

13<sup>th</sup> August 1847. near Ojo de Bernal.

8<sup>th</sup> September 1847. Pawnee Fork, Creek bottom.

24<sup>th</sup> May 1847. Rio del Norte, sides of somewhat elevated banks fronting the water, between rocks.

1<sup>st</sup> Septbr. 1847. Prairie at Sand Creek.

14<sup>th</sup> August 1847. Between San Miguel & Cegas

19<sup>th</sup> May - 13<sup>th</sup> July 1847. Rio del Norte and Santa Fe, sunny hill-sides, between rocks.

17<sup>th</sup> May - 6<sup>th</sup> August 1847. Rio del Norte, sandy elevated places of the river bank, at some distance from the water, also Santa Fe, foot of hills, dry loose sandy soil, under protection of shrubs.

16<sup>th</sup> June - 10<sup>th</sup> August 1847. Santa Fe, foot of dry hills.

30<sup>th</sup> May - 13<sup>th</sup> August 1847. Santa Fe, dry gravelly valley; also neighbourhood of Ojo de Bernal.

17<sup>th</sup> August 1847. 2 miles East of Mora River, foot of high rocks.

17<sup>th</sup> - 31<sup>st</sup> July 1847. Santa Fe, waste fields; Rio del Norte, low sandy river bank.

29<sup>th</sup> August 1847. Between Willow-Bar and Middle Spring (Cimarron Riv.).

15<sup>th</sup> May - 3<sup>rd</sup> June 1847. Santa Fe Creek, bottom-land at no great distance from the creek.

19<sup>th</sup> July 1847. Santa Fe, grassy margin of an irrigating ditch.

12<sup>th</sup> August - 8<sup>th</sup> September 1847. Pawnee Fork & Pecos, prairies.

16<sup>th</sup> July - 3<sup>rd</sup> Septbr. 1847. Santa Fe, creek-valley near fields; - Willow-Bar, sandy wet bottom-land; - Ford of Arkansas R., low bottom-land; - Pawnee Fork, creek-bottom.

27<sup>th</sup> August 1847. Upper Spring Cimarron Riv.; margin of the water.

21<sup>st</sup> Septbr. 1847. Prairie about 10 miles South West of the upper ferry of Kansas Riv.

27<sup>th</sup> September 1847. Bank of Missouri Riv. above Washington.

12<sup>th</sup> August 1847. 10 miles East of Pecos, low prairie.

21<sup>st</sup> July 1847. Santa Fe Creek, not far from the creek.

16<sup>th</sup> August 1847. Mora Riv., hill-side between rocks.

17<sup>th</sup> August 1847. Creek-bottom near Council Grove.

26<sup>th</sup> July - 8<sup>th</sup> September 1847. Santa Fe, creek-bottom; - Ojo de Bernal, margin of a pond; - Ford of the Arkansas R., wet bottom-land; - Pawnee Fork, creek-bottom.

12<sup>th</sup> August 1847. 10 miles East of Pecos.

26<sup>th</sup> August 1847. A few miles Ws of the ford of Cimarron Riv.

12<sup>th</sup> August 1847. Ojo de Bernal low grassy places in the mountains.

33<sup>rd</sup> - 24<sup>th</sup> June 1847. Santa Fe Creek, margin of the creek.

13<sup>th</sup> - 16<sup>th</sup> August 1847. Ojo de Bernal - Mora Riv., summit of a rocky hill.

15<sup>th</sup> May - 12<sup>th</sup> July 1847. Santa Fe, margin of the creek.

*Leersia virginica*

24<sup>th</sup> September 1847. 8 miles South of Fort Leavenworth, in ravines along the road side.

17<sup>th</sup> August 1847. A few miles East of Mora Riv., deep standing water.

*Magnolia ssp. long*

= 1006  
14<sup>th</sup> August 1847. About 90 miles West of Independence, under water in a deep large pool.

18<sup>th</sup> September 1847. Bluff-creek bottom, submerged in the water of a shallow pool.

*Lamna trisulca*?  
*L. minor*?

2 species. 17<sup>th</sup> August 1847. A few miles East of Mora R., surface

of deep standing water.

29<sup>th</sup> April 1847. Santa Fe, in a pond like collection of water fed by a small spring.

### Equisetaceæ.

*Equisetum arvense*

22<sup>nd</sup> April - 22<sup>nd</sup> June 1847. Santa Fe creek-bottom, near the creek and irrigating ditches, also Rio del Norte, low bank, margin of the water.

*E. hyemale* ?

8<sup>th</sup> - 22<sup>nd</sup> May 1847. Rio del Norte, low wet sandy bank of the river.

*E. laevigatum* A. Brum  
22<sup>nd</sup> June 1847. Santa Fe, foot of hills near the creek.

*E. robustum* A. Brum

4<sup>th</sup> March - 2<sup>nd</sup> May Sunny bank of Santa Fe creek.

### Filiæ.

*Botrychium lunaria* ?  
only one small specimen seen.

5<sup>th</sup> June 1847. Santa Fe creek valley, grassy place.

12<sup>th</sup> April - 11<sup>th</sup> November 1846-7  
Santa Fe, shady sides of mountains, near the foot as well as on the summit. In good soil under protection of rocks and roots, in crevices. Early in the spring, the leaves show a tendency to roll up. as soon as the plant is taken from the ground it is green throughout the winter.

23<sup>rd</sup> February 1847. Eastern mountains, Santa Fe; sunny declivities in crevices of steep masses of rocks.

8<sup>th</sup> - 25<sup>th</sup> May 1847. Rio del Norte, deep ravines in the trap-formation, the rocks flexuous, joints elevated.

*Plenis atropurpurea*

20<sup>th</sup> August 1846. Council Grove summit of a hill, deep crevices in the rocks.

28<sup>th</sup> July 1847. Santa Fe Creek 12 miles above Santa Fe, high mountains, shady places in ravines.

*Spiridium may-narense* ?

5<sup>th</sup> June 1847. Santa Fe Creek bottom, near the creek.

21<sup>st</sup> August 1847. Council Grove ravine, between rocks, in a ravine.

15<sup>th</sup> May - 24<sup>th</sup> June 1847. Santa Fe creek-bottom, shady places at the foot of rocks, damp moist fertile soil.

1023.

30<sup>th</sup> March - 17<sup>th</sup> August 1847. Santa Fe Creek, shady bank, between rocks, good soil.  
Also 2 miles East of Santa Fe. Green throughout the winter.

### Lycopodiaceæ.

*Lycopodium*

13<sup>th</sup> February - 17<sup>th</sup> April 1847. Santa Fe Creek, perpendicular side of rocks facing the creek, in the higher regions of the mountain range as well as on the shady bank of the lower creek. Begins to be lively green in the month of March.

*Lycop.*

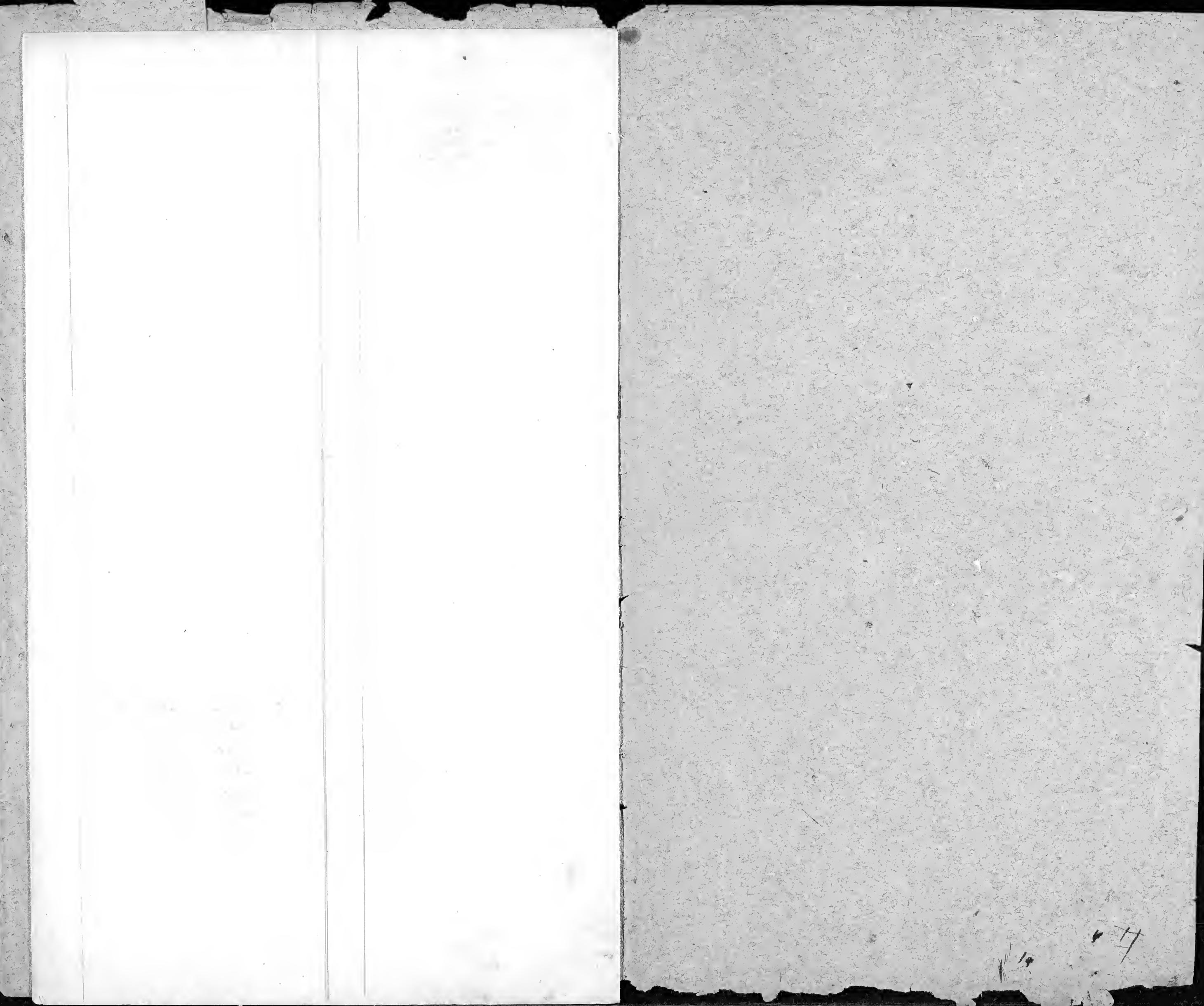
near Alpine but apparently different.  
16<sup>th</sup> February - April 1847. Santa Fe, between rocks in the upper regions of the mountains.

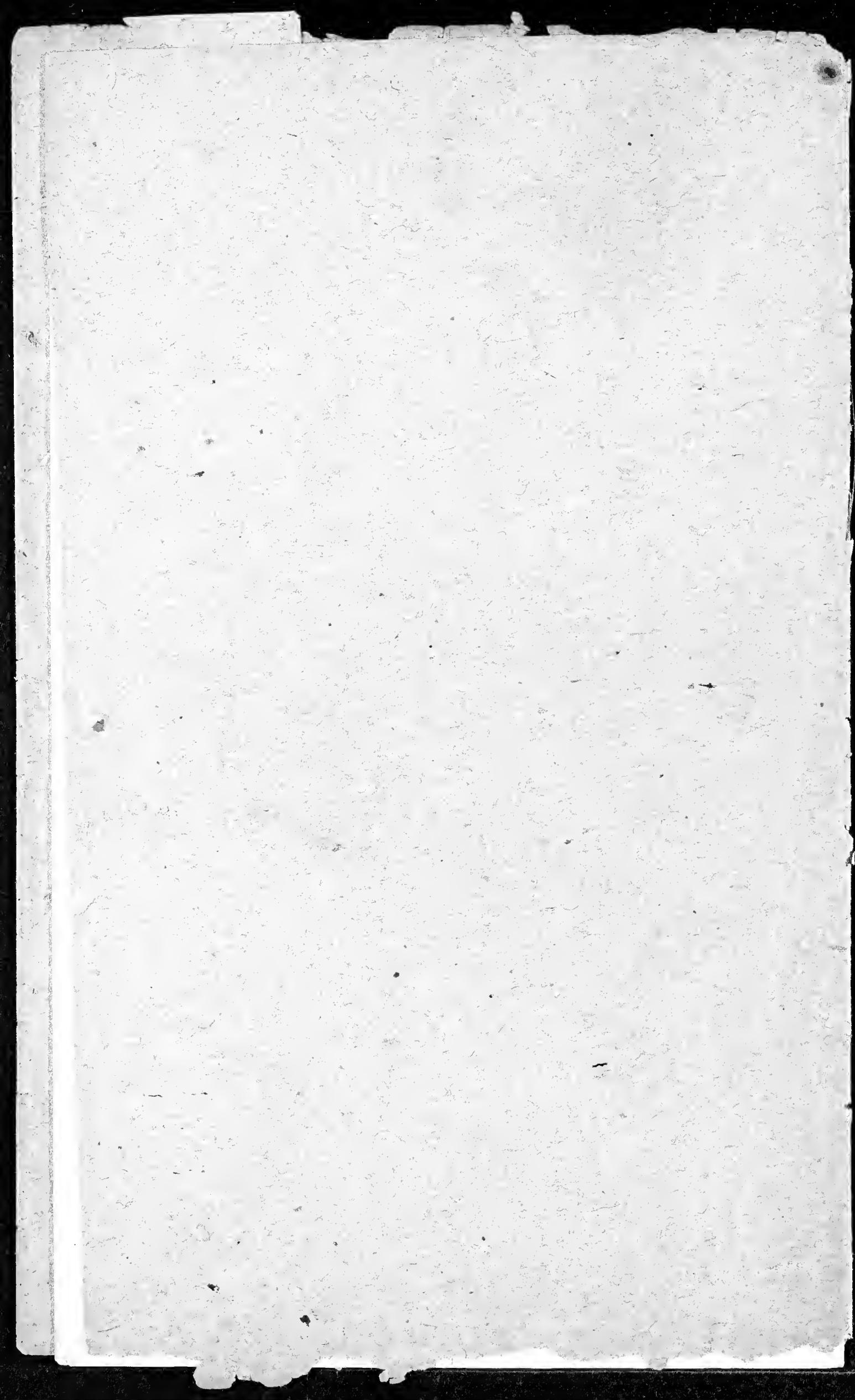
### Characeæ.

29<sup>th</sup> April 1847. Santa Fe, in a shallow pond fed by a spring.

sets 1-6  
7-14  
15-20  
21-28  
29-37  
38-53  
54-73

out 513 - 400 mrs  
387 - 300  
291 - 250  
246 - 200  
191 - 151  
147 - 100  
97 - 50







Fendler nos 834-1026  
New Mexico

Plant Lists  
23.5